

A

A

B

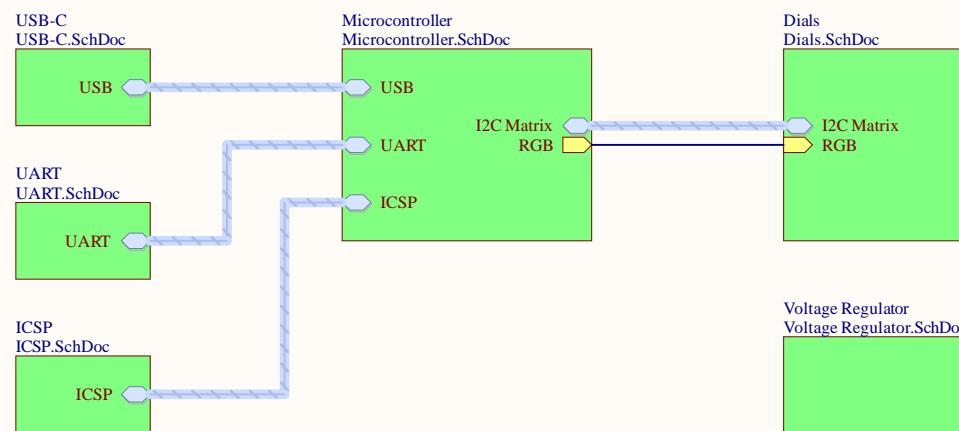
B

C

C

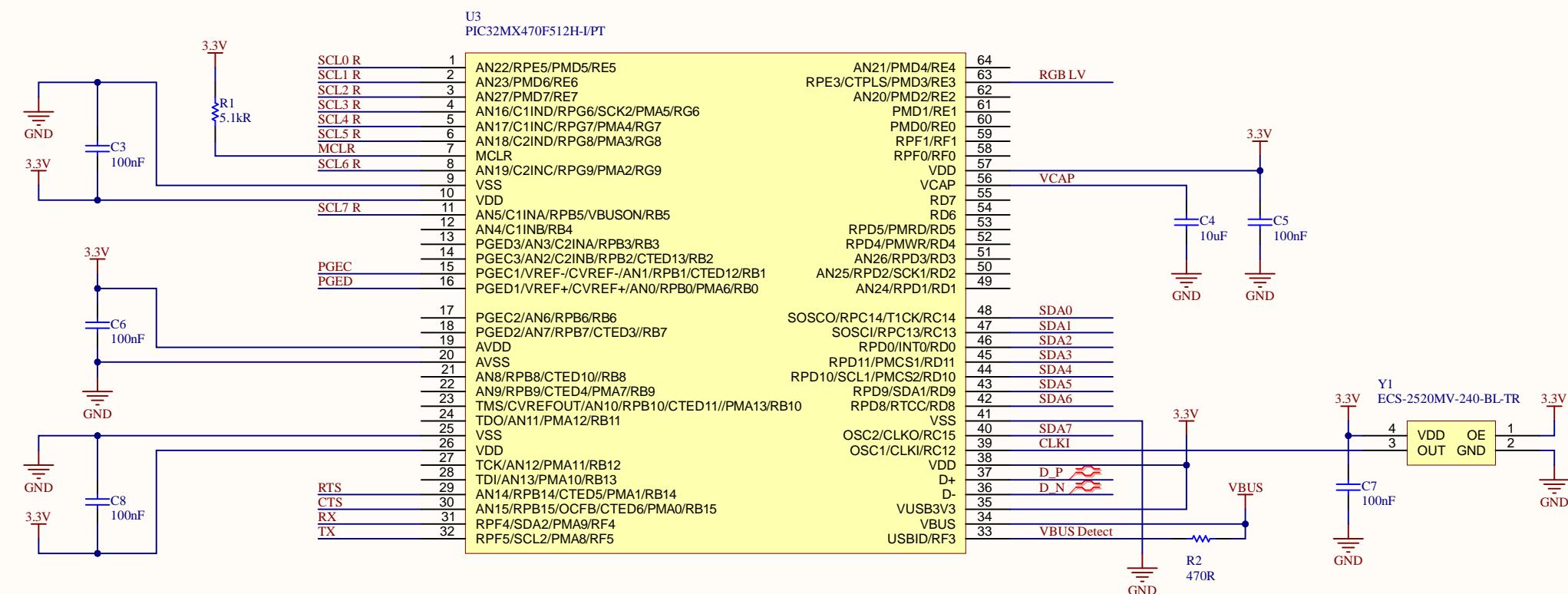
D

D



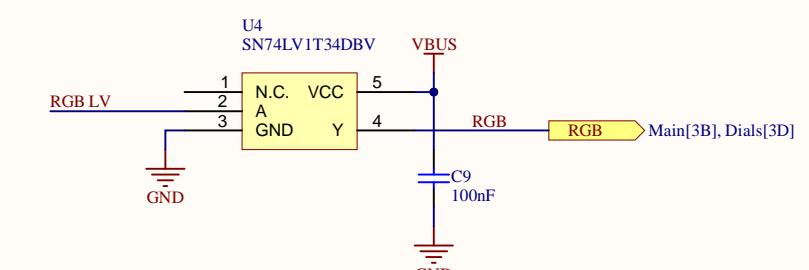
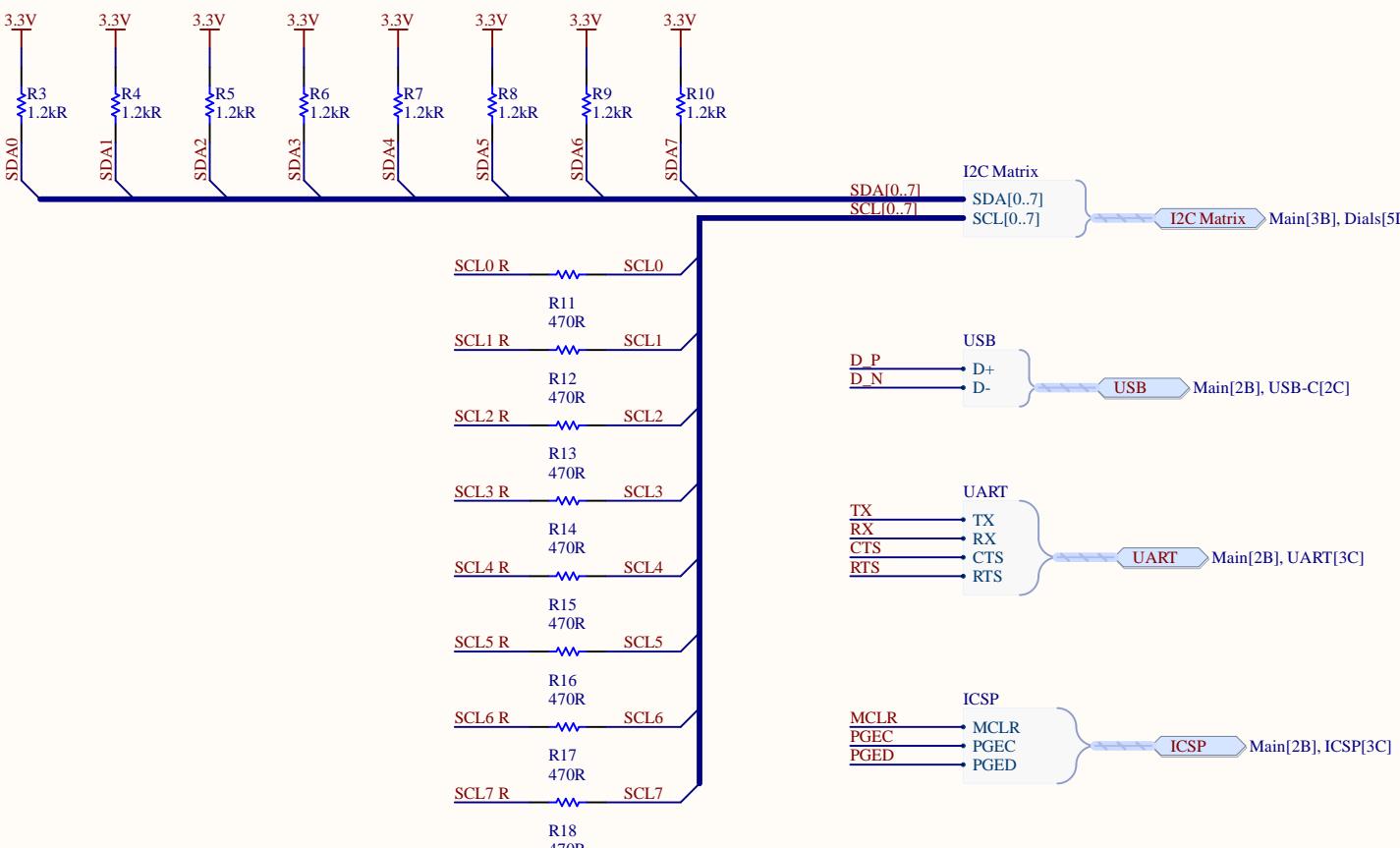
TITLE		
Main.SchDoc		
PROJECT		
A4	Magnetic Sequencer	VERSION v1.1
VARIANT	[No Variations]	SHEET 1 OF 8
AUTHOR	Seb Madgwick	DATE 19/01/2023

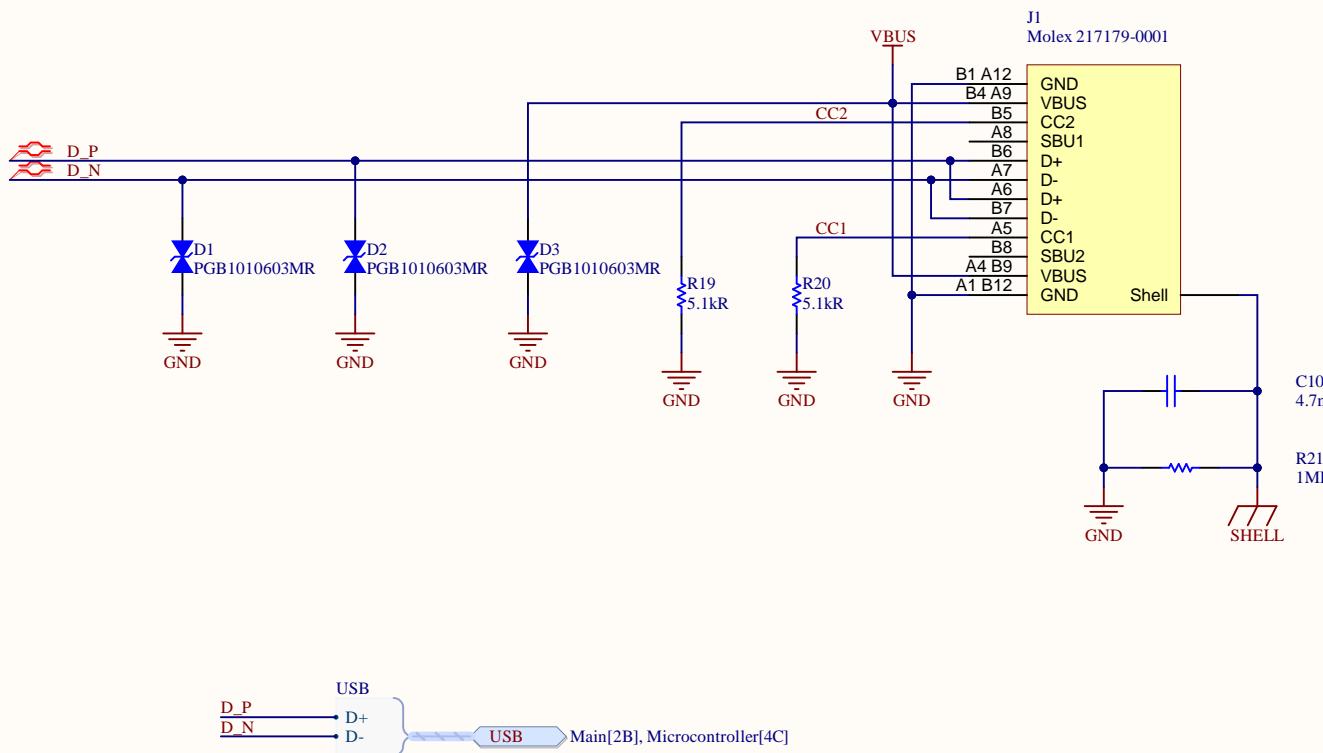
A



**V<sub>BUS</sub> Detect** requires PIC32MX internal pull-down

B





TITLE  
USB-C.SchDoc

SIZE	PROJECT	VERSION
A4	Magnetic Sequencer	v1.1
VARIANT	[No Variations]	SHEET 3 OF 8
AUTHOR	Seb Madgwick	DATE 19/01/2023

A

A

B

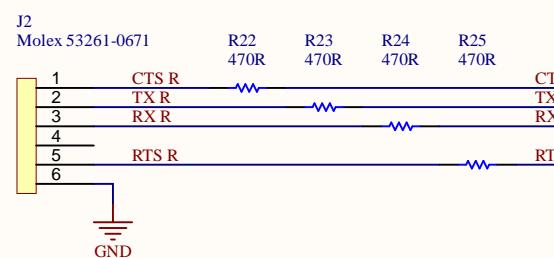
B

C

C

D

D



TITLE  
UART.SchDoc

SIZE A4  
PROJECT Magnetic Sequencer  
VERSION v1.1

VARIANT [No Variations]  
AUTHOR Seb Madgwick

SHEET 4 OF 8  
DATE 19/01/2023

A

A

B

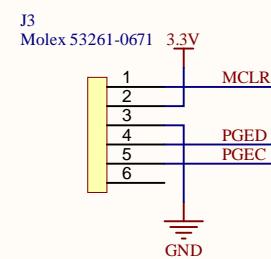
B

C

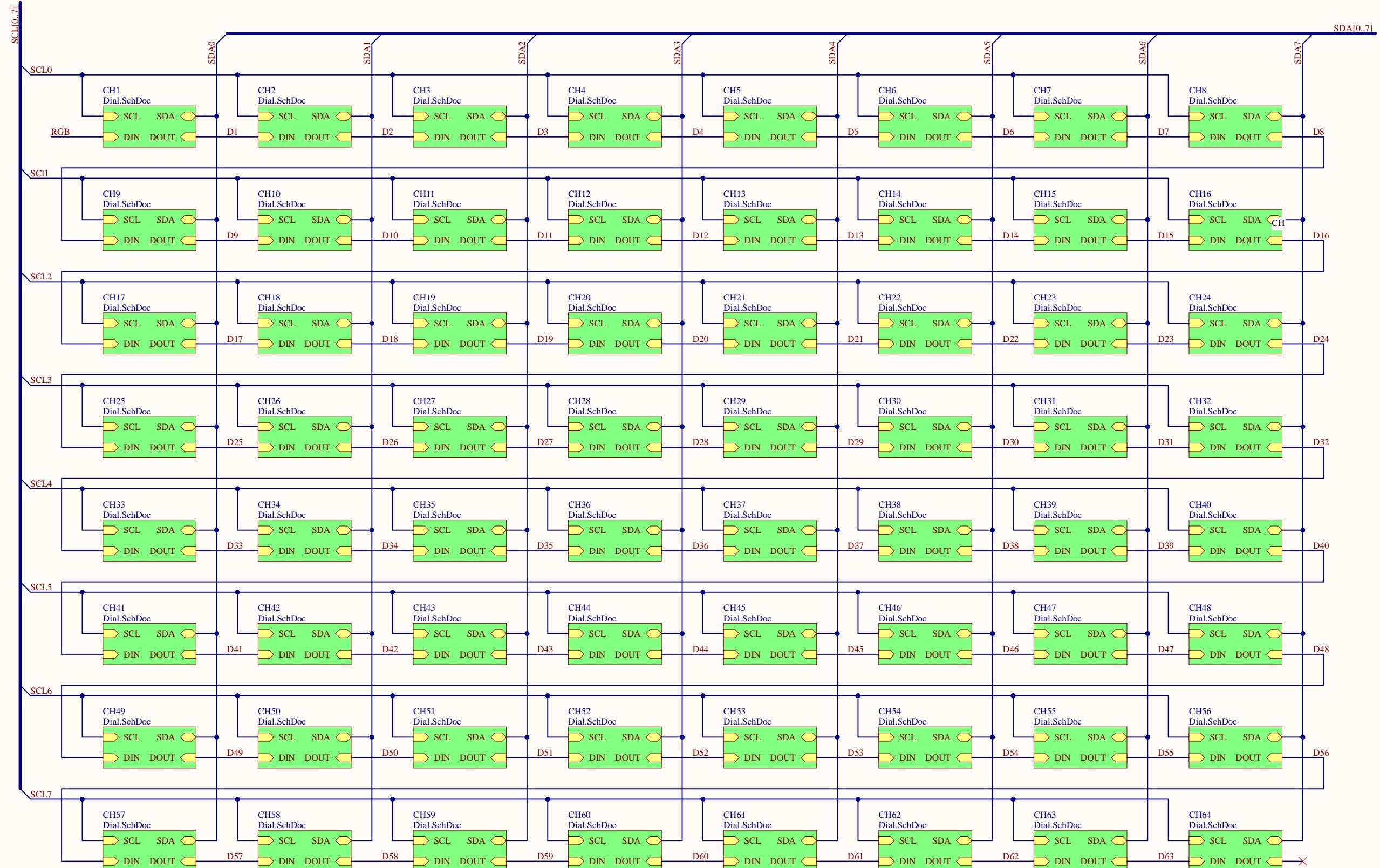
C

D

D



	TITLE <b>ICSP.SchDoc</b>		
SIZE <b>A4</b>	PROJECT <b>Magnetic Sequencer</b>	VERSION <b>v1.1</b>	
VARIANT [No Variations]	SHEET 5 OF 8		
AUTHOR Seb Madgwick	DATE 19/01/2023		



RGB — Main[3B], Microcontroller[7C]  
 SDA[0..7] — Main[3B], Microcontroller[4C]  
 SCL[0..7] — Main[3B], Microcontroller[4C]

TITLE		Dials.SchDoc	
SIZE	PROJECT	A3	Magnetic Sequencer
VARIANT	[No Variations]	SHEET	6 OF 8
AUTHOR	Seb Madgwick	DATE	19/01/2023

A

A

B

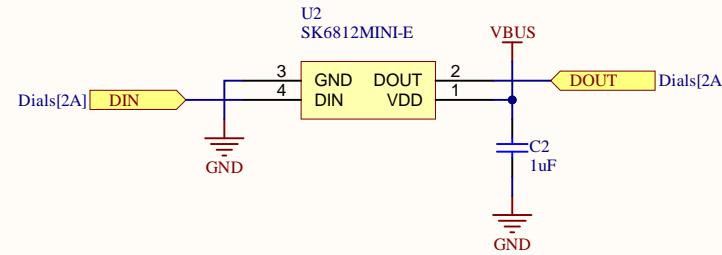
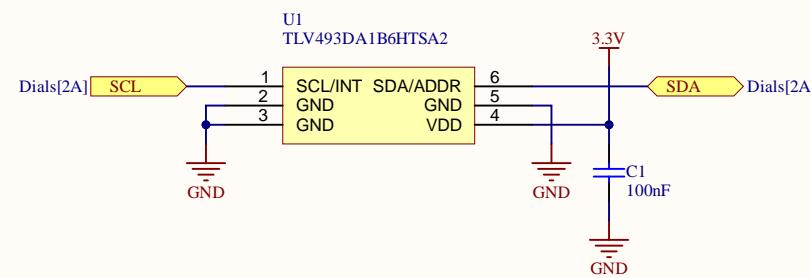
B

C

C

D

D



TITLE		Dial.SchDoc	
SIZE	PROJECT	VERSION	
A4	Magnetic Sequencer	v1.1	
VARIANT	[No Variations]	SHEET	7 OF 8
AUTHOR	Seb Madgwick	DATE	19/01/2023

A

A

B

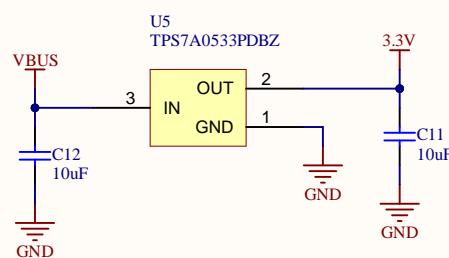
B

C

C

D

D



TITLE		
Voltage Regulator.SchDoc		
SIZE	PROJECT	VERSION
A4	Magnetic Sequencer	v1.1
VARIANT	[No Variations]	SHEET 8 OF 8
AUTHOR	Seb Madgwick	DATE 19/01/2023



ICSP

UART

U4  
R11  
R12  
R13  
R14  
R15  
R16  
R17  
R18  
C3

USB-C  
D3 D1 D2  
J1  
R19  
R20  
C10  
R21

Magnetic Sequencer v1.1

95% 95% 95% 95% 95% 95% 95% 95%

95% 95% 95% 95% 95% 95% 95% 95%

95% 95% 95% 95% 95% 95% 95% 95%

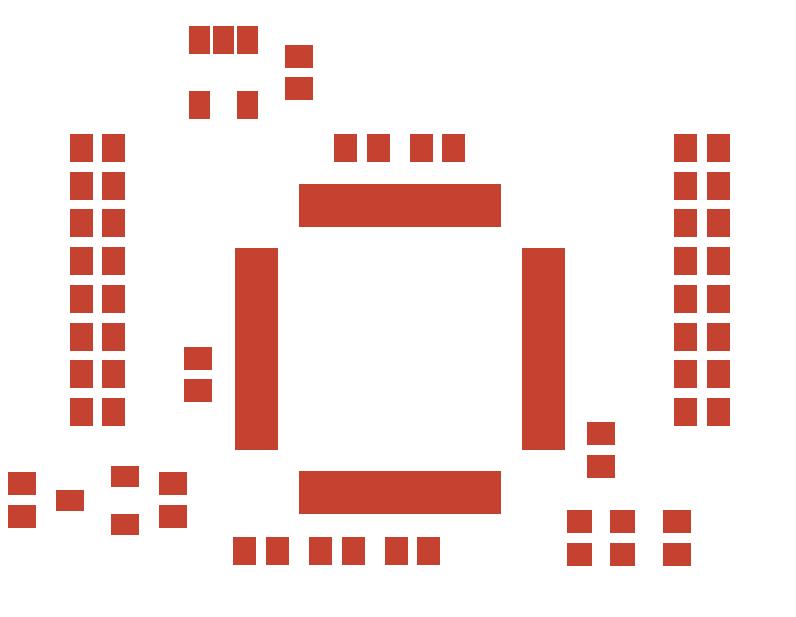
95% 95% 95% 95% 95% 95% 95% 95%


95% 95% 95% 95% 95% 95% 95% 95%

95% 95% 95% 95% 95% 95% 95% 95%

95% 95% 95% 95% 95% 95% 95% 95%


95% 95% 95% 95% 95% 95% 95% 95%













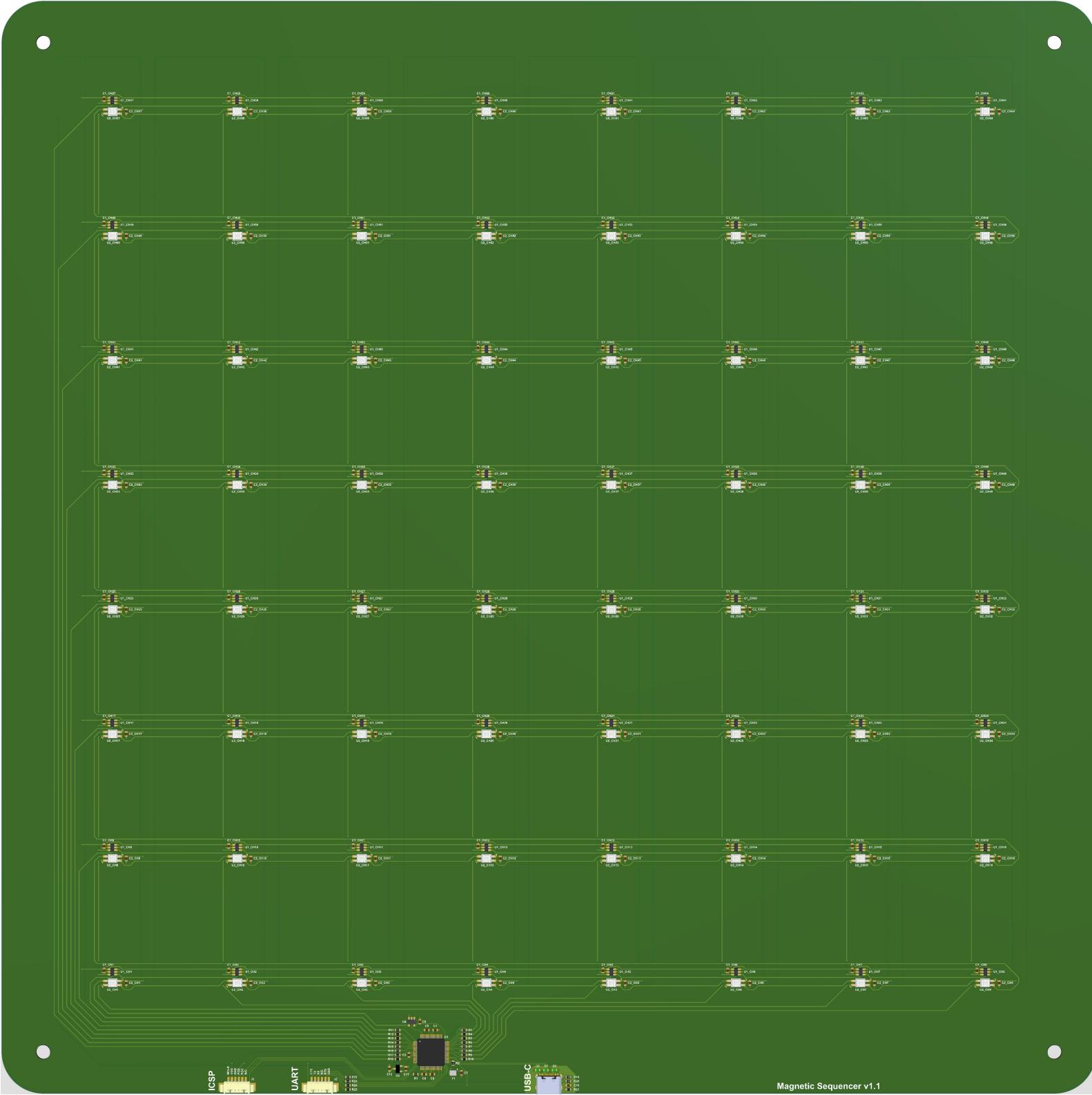








Magnetic Sequencer v1.1

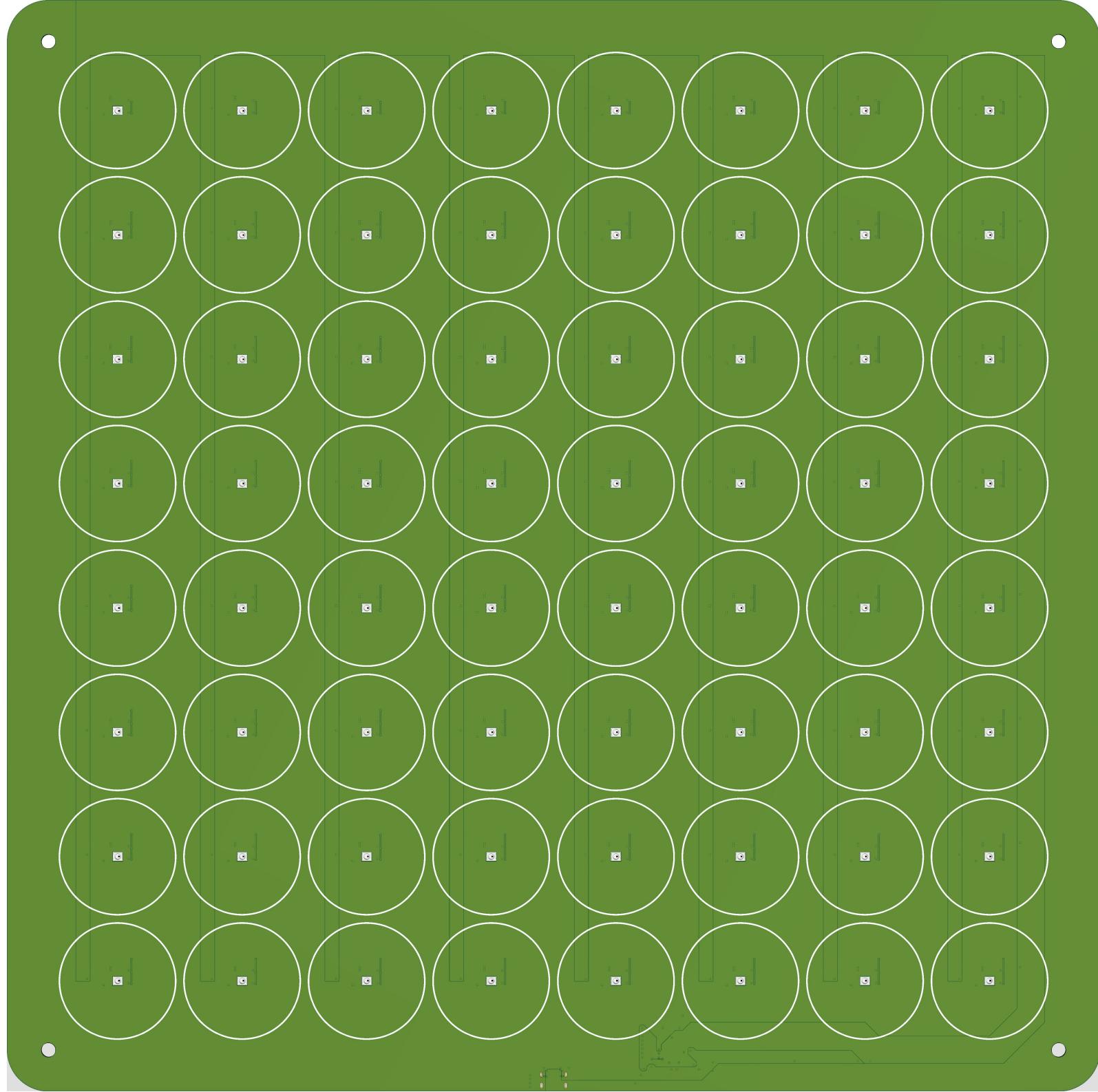


ICSP

UART

USB-C

Magnetic Sequencer v1.1







ICSP

UART

USB-C

Magnetic Sequencer v1.1



Designator	Quantity	Comment	Footprint
C1_CH1, C1_CH2, C1_CH3, C1_CH4, C1_CH5, C1_CH6, C1_CH7, C1_CH8, C1_CH9, C1_CH10, C1_CH11, C1_CH12, C1_CH13, C1_CH14, C1_CH15, C1_CH16, C1_CH17, C1_CH18, C1_CH19, C1_CH20, C1_CH21, C1_CH22, C1_CH23, C1_CH24, C1_CH25, C1_CH26, C1_CH27, C1_CH28, C1_CH29, C1_CH30, C1_CH31, C1_CH32, C1_CH33, C1_CH34, C1_CH35, C1_CH36, C1_CH37, C1_CH38, C1_CH39, C1_CH40, C1_CH41, C1_CH42, C1_CH43, C1_CH44, C1_CH45, C1_CH46, C1_CH47, C1_CH48, C1_CH49, C1_CH50, C1_CH51, C1_CH52, C1_CH53, C1_CH54, C1_CH55, C1_CH56, C1_CH57, C1_CH58, C1_CH59, C1_CH60, C1_CH61, C1_CH62, C1_CH63, C1_CH64, C3, C5, C6, C7, C8, C9	70	100nF	Capacitor 0603
C2_CH1, C2_CH2, C2_CH3, C2_CH4, C2_CH5, C2_CH6, C2_CH7, C2_CH8, C2_CH9, C2_CH10, C2_CH11, C2_CH12, C2_CH13, C2_CH14, C2_CH15, C2_CH16, C2_CH17, C2_CH18, C2_CH19, C2_CH20, C2_CH21, C2_CH22, C2_CH23, C2_CH24, C2_CH25, C2_CH26, C2_CH27, C2_CH28, C2_CH29, C2_CH30, C2_CH31, C2_CH32, C2_CH33, C2_CH34, C2_CH35, C2_CH36, C2_CH37, C2_CH38, C2_CH39, C2_CH40, C2_CH41, C2_CH42, C2_CH43, C2_CH44, C2_CH45, C2_CH46, C2_CH47, C2_CH48, C2_CH49, C2_CH50, C2_CH51, C2_CH52, C2_CH53, C2_CH54, C2_CH55, C2_CH56, C2_CH57, C2_CH58, C2_CH59, C2_CH60, C2_CH61, C2_CH62, C2_CH63, C2_CH64	64	1uF	Capacitor 0603
C4, C11, C12	3	10uF	Capacitor 0603
C10	1	4.7nF	Capacitor 0603
D1, D2, D3	3	PGB1010603MR	Diode TVS 0603
J1	1	Molex 217179-0001	Molex 217179-0001
J2, J3	2	Molex 53261-0671	Molex 53261-0671
R1, R19, R20	3	5.1kR	Resistor 0603
R2, R11, R12, R13, R14, R15, R16, R17, R18, R22, R23, R24, R25	13	470R	Resistor 0603
R3, R4, R5, R6, R7, R8, R9, R10	8	1.2kR	Resistor 0603
R21	1	1MR	Resistor 0603
U1_CH1, U1_CH2, U1_CH3, U1_CH4, U1_CH5, U1_CH6, U1_CH7, U1_CH8, U1_CH9, U1_CH10, U1_CH11, U1_CH12, U1_CH13, U1_CH14, U1_CH15, U1_CH16, U1_CH17, U1_CH18, U1_CH19, U1_CH20, U1_CH21, U1_CH22, U1_CH23, U1_CH24, U1_CH25, U1_CH26, U1_CH27, U1_CH28, U1_CH29, U1_CH30, U1_CH31, U1_CH32, U1_CH33, U1_CH34, U1_CH35, U1_CH36, U1_CH37, U1_CH38, U1_CH39, U1_CH40, U1_CH41, U1_CH42, U1_CH43, U1_CH44, U1_CH45, U1_CH46, U1_CH47, U1_CH48, U1_CH49, U1_CH50, U1_CH51, U1_CH52, U1_CH53, U1_CH54, U1_CH55, U1_CH56, U1_CH57, U1_CH58, U1_CH59, U1_CH60, U1_CH61, U1_CH62, U1_CH63, U1_CH64	64	TLV493DA1B6HTSA2	SOT-23-6
U2_CH1, U2_CH2, U2_CH3, U2_CH4, U2_CH5, U2_CH6, U2_CH7, U2_CH8, U2_CH9, U2_CH10, U2_CH11, U2_CH12, U2_CH13, U2_CH14, U2_CH15, U2_CH16, U2_CH17, U2_CH18, U2_CH19, U2_CH20, U2_CH21, U2_CH22, U2_CH23, U2_CH24, U2_CH25, U2_CH26, U2_CH27, U2_CH28, U2_CH29, U2_CH30, U2_CH31, U2_CH32, U2_CH33, U2_CH34, U2_CH35, U2_CH36, U2_CH37, U2_CH38, U2_CH39, U2_CH40, U2_CH41, U2_CH42, U2_CH43, U2_CH44, U2_CH45, U2_CH46, U2_CH47, U2_CH48, U2_CH49, U2_CH50, U2_CH51, U2_CH52, U2_CH53, U2_CH54, U2_CH55, U2_CH56, U2_CH57, U2_CH58, U2_CH59, U2_CH60, U2_CH61, U2_CH62, U2_CH63, U2_CH64	64	SK6812MINI-E	SK6812MINI-E
U3	1	PIC32MX470F512H-I/PT	TQFP-64
U4	1	SN74LV1T34DBV	SOT-23-5
U5	1	TPS7A0533PDBZ	SOT-23
Y1	1	ECS-2520MV-240-BL-TR	ECS-2520MV-240-BL-TR